## EXPRESS MAIL NO. EJ709664372US

PTO-1390 (Rev. 12-2004) Approved for use through 3/31/2007. OMB 0651-0021 U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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### ATTTORNEY'S DOCKET NUMBER TRANSMITTAL LETTER TO THE UNITED STATES 97347.00030 DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED

see 67 GFR 1.5) INTERNATIONAL APPLICATION NO. PCT/US2003/028172 09 SEP 2003 09 SEP 2002 TITLE OF INVENTION SWIRL NOZZLE AND METHOD OF MAKING SAME APPLICANT(S) FOR DO/EO/USThomas P. BOWMAN; Michael J. MIKAELIAN; Daniel T. DELESDERNIER; Ronald H. EMERSON; Lincoln SOULE; Matthew BETE; Douglas J. DZIADZIO Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: 1. This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. V The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). 7. 🔽 Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. A preliminary amendment. 14. An Application Data Sheet under 37 CFR 1.76. A substitute specification. 16. L A power of attorney and/or change of address letter. 17 I A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. 18. L\_ A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. L A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mall Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Other items or information: Return Receipt Postcard; Certificate of Express Mailing



20.

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U.S. APPLICAT	$10^{10}$	$\frac{0}{5}$	271	CFR 1.5 4 1	PCT/US2003/028		TION NO.		97347.00030	OCKET NUMBER	
21. The followi	-			_							
a) Basic national fee\$300.00									300.00	<u> </u>	
b) Examination fee\$200.00							\$200.00	\$	200.00		
c) Search fee\$500.00							\$	500.00			
TOTAL OF ABOVE CALCULATIONS = \$1000.00								\$	1000.00		
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.											
Total Sheets	Extra sheets			Number of each additional 50 or fraction RATE thereof (round up to a whole number)			RATE				
47 - 100 =	0		/50 =		<del></del>		x \$250.00	\$	N/A		
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).							earliest	\$			
CLAIMS	CLAIMS NUMBER		BER FILE	ILED NUMBER EXTRA			RATE	\$			
Total claims		18		- 20 =	0	х	\$50.00	\$	N/A		
Independent clai	ims	3		-3 = 0 x \$200.00		\$200.00	\$	N/A			
MULTIPLE DEP	ENDE	NT CLAIM	(S) (if appl	icable)		+	\$360.00	\$	N/A		
	TOTAL OF ABOVE CALCULATIONS =							\$	0.0		
Applicant of by 1/2.	Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.										
SUBTOTAL =								\$	1000.00		
_	Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).								\$ N/A		
TOTAL NATIONAL FEE =								\$ 1000.00			
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +								\$ N/A			
TOTAL FEES ENCLOSED =								\$	1000.00		
									nount to be funded:	\$	
									nount to be arged:	\$ 1000.00	
a. A ched	ck in the	e amount o	of \$		to cover the abo	ove fees	s is enclosed.				
b. Please A dupl	<u> </u>										
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit t Account No. 50-1402 A duplicate copy of this sheet is enclosed.											
	d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.										
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.											
SEND ALL CORRESPONDENCE TO:									Bone	<u>_</u> '	
McCarter & English, LLP			•		SIGNATURE						
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FORM PTO-1390 (REV. 12-2004)

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# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE AS DESIGNATED/ELECTED OFFICE

In the Application of:	)
Thomas P. BOWMAN, et al.	)
Title:	)
SWIRL NOZZLE AND METHOD OF MAKING SAME	) ) )
Application No.: PCT/US03/28172	)
Int'l Filing Date: 09 SEPT 2003 (09.09.2003)	) Docket No. 97347.00030US

## **CERTIFICATE OF EXPRESS MAILING**

Express Mailing Label No.: **EJ709664372US**Date of Deposit: March 9, 2005

I hereby certify that the papers enclosed herewith: Transmittal Letter to DO/EO/US Concerning a Filing Under 35 U.S.C. 371 (Form PTO1390, with second page in duplicate for fee processing), Specification (29 Pages), Formal Drawings (18 Sheets), an executed Declaration, Power of Attorney and Petition, a Preliminary Amendment, and a stamped, self-addressed return postal card are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above and are addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313.

Name: Melanie G. Vasquez

HARTFORD: 615462.01